

REMARKS

Claims 1-17 are presented in the application as originally filed, and new claims 18-23 are presented by the above amendment. Claims 16 and 17, as well as the title, abstract, and specification are amended. Applicant requests examination of the application.

The title is amended to better reflect the contents of the application, and the abstract is similarly amended. Support for reciting dye colored fire fighting compositions and methods of evaluating dye colored fire fighting foam concentrates and fire fighting compositions is found throughout the specification. Support for dye colored fire fighting compositions is found, for example, at pages 9-11, and support for methods of evaluating dye colored fire fighting foam concentrates and fire fighting compositions is found at pages 12-15.

The specification is amended to denote specific objects of the invention. Each of these objects is amply supported throughout the specification as originally filed. See, for example, pages 4-5 and 11-12.

Claims 16 and 17 are amended. Claim 16 is now in independent form. Support is found throughout the specification as originally filed, particularly pages 11-14. Claim 17 is amended to depend from claim 16 instead of claim 13, thus broadening claim 17 in the same way. The term "resultant mixture" is changed to "fire fighting composition" to provide proper antecedent basis.

Claims 18-23 are added. No new matter is added by this amendment. Support for these claims is found throughout the specification as originally filed. Support for claims 18 and 19 is found, for example, on pages 5-9. Support for claims 20-23 is found, for example, on pages 11-14.

Respectfully submitted,

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PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(4027.00008)**

Applicants: Mitchell J. Hubert et al **Paper No.:**
Application No.: 09/883,705 **Group Art Unit:**
Filed: June 18, 2001 **Examiner:**
Title: **DYE COLORED FIRE FIGHTING FOAM CONCENTRATE**

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Appendix – Marked-Up Version Showing Amendments

In the Abstract

The paragraph following the heading “Abstract of the Disclosure” is amended as follows:

A fire fighting foam concentrate and a fire fighting composition containing a foamable fire fighting agent, a water-soluble dye, and glycol ether. A fire fighting foam concentrate and a fire fighting composition containing a fluorosurfactant-based fire fighting agent and a water-soluble dye. The concentrates are usually diluted with up to 100 times (v/v) water and aerated into a foam. In addition, a method for evaluating fire fighting foam concentrate concentrations in the fire fighting foam compositions created when the concentrates are diluted.

In the Title

The title is amended as follows:

DYE COLORED FIRE FIGHTING FOAM ~~CONCENTRATE~~ CONCENTRATES AND
FIRE FIGHTING COMPOSITIONS, AND METHODS FOR EVALUATING SAME.

In the Specification

The paragraph beginning on line 5 of page 2 is amended to read:

It is an object of the present invention to address one or more of the above-mentioned problems. It is a further object of one or more preferred embodiments of the present invention to provide an accurate method of measuring the mix ratio of fire fighting foam concentrates mixed with diluent, especially when the diluent is sea water or water with a high electrolyte or dissolved solids content. It is a still further object of one or more preferred embodiments of the present invention to provide a method for evaluating the mix ratio after the fire fighting foam composition has been foamed. It is another object of the present invention to provide a fire fighting foam concentrate suitable for diluting and foaming to produce a foam composition for fighting fires, where the proportioning or mix ratio of the foam concentrate in diluent is capable of being accurately evaluated or determined by visual, colorimetric, spectrophotometric, or other suitable means. It is yet a further object of the present invention to provide a fire fighting composition comprising such fire fighting foam concentrate and diluent, in which the proportioning or mix ratio of the concentrate in diluent is capable of being accurately evaluated or determined by visual, colorimetric, spectrophotometric, or other suitable means. It is still

another object of the present invention to provide a method of fighting fires utilizing such fire fighting composition.

In the Claims

Claims 16 and 17 is amended as follows:

Claim 16 (Amended). ~~The method of claim 13, wherein the spectral property comprises absorption of light at a particular wavelength.~~ A method of evaluating a fire fighting composition, said method comprising:

- a) introducing into an aqueous liquid a fire fighting foam concentrate comprising:
foamable fire fighting agent; and
water-soluble dye,

to obtain a fire fighting composition;

- b) obtaining a sample of the fire fighting composition; and
- c) comparing the absorption of light of the sample at a particular wavelength to the absorption of light by a preestablished standard.

Claim 17. The method of claim ~~16~~ 13, further comprising:

- d) between steps a and b, foaming the resultant mixture fire fighting composition
and permitting the foamed resultant mixture fire fighting composition to relax
back into liquid form.

New claims 18-23 are added, as follows:

Claim 18. The fire fighting foam concentrate of claim 1, comprising:

1% - 40% by weight of the foamable fire fighting agent, based on the weight of the fire fighting foam concentrate;

0.0001% - 2% by weight of the water-soluble dye, based on the weight of the fire fighting foam concentrate; and

5% - 20% by weight of the glycol ether, based on the weight of the fire fighting foam concentrate.

Claim 19. The fire fighting foam concentrate of claim 1 wherein the glycol ether comprises diethylene glycol butyl ether.

Claim 20. A method of evaluating a fire fighting composition, said method comprising:

- a) introducing into an aqueous liquid a fire fighting foam concentrate comprising:
foamable fire fighting agent;
glycol ether; and
water-soluble dye,
to obtain a fire fighting composition;
- b) obtaining a sample of the fire fighting composition; and
- c) comparing the spectral property of the sample to a preestablished standard.

Claim 21. A method of evaluating a fire fighting composition, said method comprising:

- a) introducing into an aqueous liquid a fire fighting foam concentrate comprising:
fluorosurfactant-based foamable fire fighting agent; and
water-soluble dye,
to obtain a fire fighting composition, a spectral property of the fire fighting
composition being proportional to the concentration of fire fighting foam concentrate in
the fire fighting composition;
- b) obtaining a sample of the fire fighting composition; and
- c) comparing the spectral property of the sample to a preestablished standard.

Claim 22. A method of evaluating a fire fighting composition, said method comprising:

- a) introducing into an aqueous liquid a fire fighting foam concentrate comprising:
foamable fire fighting agent;
glycol ether; and
water-soluble dye,
to obtain a fire fighting composition, a spectral property of the fire fighting composition being
proportional to the concentration of fire fighting foam concentrate in the fire fighting
composition;
- b) obtaining a sample of the fire fighting composition; and
- c) comparing the spectral property of the sample to a preestablished standard.

Claim 23. The method of claim 22, further comprising determining the concentration of fire fighting foam concentrate in the fire fighting composition.